

# CERTIFICATE

Issued to:  
Applicant:  
**TCI Telecomunicazioni Italia S.r.l.**  
**Via Parma, 14**  
**21047 Saronno (VA), Italy**

Licensee:  
**TCI Telecomunicazioni Italia S.r.l.**  
**Via Parma, 14**  
**21047 Saronno (VA), Italy**

Product : Electronic controlgear for LED modules  
Trade name(s) : TCI, TCI (with little dragon), TCI LED, TCI LED (with little dragon),  
TCI LIGHT (with little dragon and ball in square), TCI LIGHT Saronno Italy or  
TN101  
Type(s)/model(s) : SVM NFC (series) and SVM SLIM (series)

The product and any acceptable variation thereto as specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 61347-1:2015/A1:2021 and EN IEC 62384:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2033015

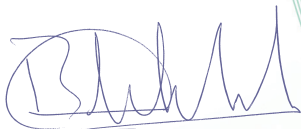
DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the ENEC certification agreement.

This certificate is issued on 1 November 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-131577

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



R Zhou  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	: Electronic controlgear for LED modules
Trade name(s)	: TCI, TCI (with little dragon), TCI LED, TCI LED (with little dragon), TCI LIGHT (with little dragon and ball in square), TCI LIGHT Saronno Italy or TN101
Type(s)/model(s)	: SVM NFC (series) and SVM SLIM (series)
Primary voltage	: 110-277 V for a.c., 196-250 V for d.c.
Rated frequency	: 50-60 Hz or 50/60 Hz, 0 Hz
Primary current	: From 0,27 to 0,72 A for a.c., 0,33 to 0,69 A for d.c.
Type of load	: LED modules, power LED
Secondary current	: From 0,3 to 2,1 A
Secondary power	: From 7 to 110 W

**TESTS****Test requirements**

EN 61347-2-13:2014  
EN 61347-2-13:2014/A1:2017  
EN 61347-1:2015  
EN 61347-1:2015/A1:2021  
EN IEC 62384:2020

**Test result**

The test results are laid down in DEKRA test file 350908000.

**Additional information**

DEKRA test report No. 3509080.50 and 3509080.51 are laid down in DEKRA test file 350908000; they contain test results. DEKRA test report No. 3509080.50 contains critical component list.

For specific Model/Type electrical rating refer to following pages.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

TCI Telecomunicazioni Italia S.r.l.  
Via Parma, 14  
21047 Saronno (VA), Italy

<b>General product information:</b>												
The devices are intended to supply high power Light Emitting Diodes or LED modules. The devices have a constant output current, depending on the selection of the DIP switch (S1/S50) or NFC setting. The stabilized output is dimmable by analogic dimming ADIM or PUSH L or DALI protocol (code 126xxx by AM/PWM dimming, code 127xxx by AM dimming). The output power can be up to Pout max with proportionate values of lin. The MP models are not dimmable. All models have SELV output.												
Types	Primary voltage (50-60 Hz) (V) [1]	Max. primary current (A)	Power Factor	d.c. current (A) [2]	Output Power (W) [3]	Output Parameter (A) [3]	Uout (V)	ta (°C)	tc (°C) [4]	Use [5]		
SVM 110 700-2100 D4i NFC (K2I76), SVM 110 700-2100 1-10V NFC (K2I78), SVM 110 700-2100 NFC (K2I80)	220-240	0,55	0,85 C-0,99	0,69	110	0,7-2,1	60	-25..50	80	IND, BI, 110		
SVM 110 700-2100 D4i NFC OF (K2I77), SVM 110 700-2100 1-10V NFC OF (K2I79), SVM 110 700-2100 NFC OF (K2I81)								-	80 (C7)	OF		
SVM 85 700-2100 110-277V D4i NFC (K2I45), SVM 85 700-2100 1-10V NFC (K2I82), SVM 85 700-2100 NFC (K2I84)	110-120 220-240 277 (for UL)	0,72 0,43 0,34	0,85 C-0,99	0,53	70 85 85	0,7-1,4 0,7-2,1 0,7-2,1	60	-25..50	80	IND, BI, 110		
SVM 85 700-2100 110-277V D4i NFC OF (K2I46), SVM 85 700-2100 1-10V NFC OF (K2I83), SVM 85 700-2100 NFC OF (K2I85)	-	-			80 (C7)	OF						
DC MAXI JOLLY SVM 80 DALI SLIM (K2C55, K2F97)	220-240	0,42	0,95 (Po>36 W)	0,5	7-78	0,35-1,4	60	-25..55	75	IND, BI, 110		
DC MAXI JOLLY SVM 80 SLIM (K2C57, K2F98)										-	80 (C14)	OF
MP 80/1400 SVM SLIM (K2C59)												
DC MAXI JOLLY SVM 80 DALI SLIM OF (K2C56)												
DC MAXI JOLLY SVM 80 SLIM OF (K2C58)												
MP 80/1400 SVM SLIM OF (K2C60)												
MP 70/1400 SVM SLIM (K2C67)	220-240	0,42	0,95 (Po>35 W)	0,5	7-70	0,35-1,4	59	-25..50	80	IND, BI, 110		
MP 70/1400 SVM SLIM OF (K2C68)										-	80 (C27)	OF
DC MAXI JOLLY SVM 65 DALI SLIM (K2C61, K2F100)	110-127 220-240 277	0,47	0,95 (Po>7,5 W 32,5 W 42,5 W) [3]	0,41	7-45 7-65 7-65	0,35-1,4	60	-25..55	75	IND, BI, 110		
DC MAXI JOLLY SVM 65 SLIM (K2C63, K2F101)		0,33										
MP 65/1400 SVM SLIM (K2C65)		0,27										
DC MAXI JOLLY SVM		-								80	OF	

65 DALI SLIM OF (K2C62)										(C14)	
DC MAXI JOLLY SVM 65 SLIM OF (K2C64)											
MP 65/1400 SVM SLIM OF (K2C66)											
MP 65/1150 SVM SLIM (K2F99)	220-240	0,4	0,95 (Po>27 W)	0,41	9-65	0,35-1,15	59	-25..50	80	IND, BI, 110	
MP 65/1150 SVM SLIM OF (K2F102)								-	80 (C27)	OF	
DC SVM 52/300-1400 DALI NFC (K2I47)	220-240	0,27	0,9 C (Po>18 W)	0,33	52	0,3-1,4	60	-25..50	80	IND, BI, 110	
DC SVM 52/300-1400 DALI NFC OF (K2I48)								-	80 (C15)	OF	
DC SVM 52/300-1400 NFC (K2I49)								-25..50	80	IND, BI, 110	
DC SVM 52/300-1400 NFC OF (K2I50)								-	80 (C15)	OF	

Notes: The Kxxxx code can replace the type reference. [1] – Rated value for AC range, 50-60 Hz or 50/60 Hz. [2] – 176-275 V is the operative d.c. range; they can be used for centralized emergency installations in the rated 196-250 V. [3] – Different values according to DIP switch selection (see marking). [4] –  $t_c$  for OF version is measured on the cap of C7/C14/C15/C27 capacitor. [5] – 110= the products have an overheating protection (C.5.a) and comply with temperature limit of IEC 60598-1; IND=independent with cable retainer or LINEAR BOX; BI=built-in; OF=built-in without enclosure.

Connections		
Input supply	PRI, L, N	screwless terminal block 0,2-1,5 mm <sup>2</sup>
Input for dimming (if present)	PUSH L, DA, DA1, DA2	screwless terminal block 0,2-1,5 mm <sup>2</sup>
Input for thermal protection (if present)	NTC, S. GND	screwless terminal block 0,2-0,5 mm <sup>2</sup>
Input for analogic dimming control 0/1-10 V (if present)	ADIM +/-	screwless terminal block 0,2-0,5 mm <sup>2</sup>
Output load	SEC +/-	screwless terminal block 0,2-0,5 mm <sup>2</sup> for DC MAXI JOLLY SVM DALI SLIM models screwless terminal block 0,2-1,5 mm <sup>2</sup> for other models

Additional information	
Use	Independent, built-in for ordinary luminaire, up to 2000 m above sea level.
Features	All models have the following features: for LED; stabilized output current (CC); multiple value load; short-circuit proof type; impulse withstand category II; Pollution degree 2; Material group IIIa. ADIM control is light regulation 0/1-100 % by means of local 0/1-10 V interface (I=0,35 mA) or 100 Kohm potentiometer. All models with enclosure are suitable for direct mounting on normally flammable surfaces. D4i models: AOC (Adjustable Output Current), CLO (CONSTANT LUMEN OUTPUT 20 step). 1-10V NFC models: the current characteristic $V_{ctrl} / I_{out}$ is adjustable with SW tool via NFC. Total circuit power: 122 W for SVM 110 700-2100 models, 94 W for SVM 85 700-2100 110-277V D4i NFC models, 85 W for DC MAXI JOLLY SVM 80 and MP 80/1400 models, 78 W for MP 70/1400 SVM SLIM models, 71 W for DC MAXI JOLLY SVM 65, MP 65/1400, MP 65/1150 SVM SLIM models, 58 W for DC SVM 52/300-1400 NCF models.
DC operation	Models suitable for d.c. operation (EL symbol) have been tested in the rated supply range 187-250 V or 196-250 V for the specific use in centralized emergency installations (extended range 168-275 V or 176-275 V); assessment to IEC 60598-2-22:2021 used in conjunction with IEC 60598-1:2020 (valid for EN IEC 60598-2-22:2022 used in conjunction with EN IEC 60598-1:2021) has been performed for independent models (for built-in models only Clauses 22.7.2 and 22.7.3 have been assessed). Emergency level can be setted for D4i models (default output current 15%).
The creepage distances, clearances and connections of control gears in the final application shall be according to IEC/EN 60598-1 or national deviations of the country where installed in the final application. INSULATION (B= basic, S= supplementary, R= double or reinforced):	
PRI, PUSH L ↔ DA; PRI, PUSH L ↔ PE; SEC ↔ PE	B
PRI ↔ SEC; PRI ↔ NTC, S.GND, ADIM; PRI ↔ D4i; PRI ↔ 1-10V	R
D4i ↔ SEC; 1-10V ↔ SEC; DA ↔ SEC	S

Active parts ↔ the enclosure	B
Assessment to EN 62493:2015, EN 62493:2022 has been performed.	